

NEW COMBINATIONS AND STATUS CHANGES IN ASTER (ASTERACEAE).

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Over the years, I have recognized several taxa in Aster at subspecies rank (Jones 1978, 1980, 1984) but neglected to make the corresponding varietal combinations. I now find that these combinations are needed, in some instances because additional varieties are to be distinguished under the same subspecies, and in others to have uniformity and comparability of infraspecific rank in a regionally limited floristic treatment. The new combinations are presented in alphabetic order. Following citation of the basionyms, other homotypic synonyms are also listed chronologically. Type information cited exclusively from the protologues is placed within quotation marks.

Aster falcatus Lindley in Hooker var. commutatus (Torrey & Gray) A. G. Jones, comb. nov. A. multiflorus Aiton var.  $\gamma$  commutatus Torrey & Gray, Fl. N. Amer. 2: 125. 1841; A. commutatus (Torrey & Gray) A. Gray, Syn. fl. N. Amer. 1(2): 185. 1884; A. ericoides L. var. commutatus (Torrey & Gray) Boivin, Nat. Canad. 89: 67. 1962; A. falcatus subsp. commutatus (Torrey & Gray) A. G. Jones, Rhodora 80: 340. 1978. TYPE: [U.S.A.,] "Upper Missouri," Long's Exped. Dr. James s.n. [lectotype (cf. Cronquist 1955): NY!].

Aster cordifolius L. var. sagittifolius (Wedem. ex Willd.) A. G. Jones, stat. nov. A. sagittifolius Wedem. ex Willd., Sp. pl. 3: 2035. 1803; A. cordifolius subsp. sagittifolius (Wedem. ex Willd.) A. G. Jones, Brittonia 32: 249. 1980. TYPE: Herb. Willdenow 15881, sheet 1 [lectotype (cf. Jones 1980): B!; 2 isolectotypes (sheets 2 and 3): B!].

Aster drummondii Lindley in Hooker var. parviceps (Shinners) A. G. Jones, comb. nov. A. texanus Burgess in Small var. parviceps Shinners, Field & Lab. 21: 156. 1953; A. drummondii subsp. parviceps (Shinners) A. G. Jones, Phytologia 55: 381. 1984. TYPE: [U.S.A.,] Texas, Bowie County, Lewis Ferry, 8 miles N of New Boston, 29 Sep. 1948. Whitehouse 20503 (holotype: SMU!).

Aster drummondii Lindley in Hooker var. texanus (Burgess in Small) A. G. Jones, stat. nov. A. texanus Burgess in Small, Fl. s. e. U. S., 1214, 1339. 1903; A. drummondii subsp. texanus (Burgess in Small) A. G. Jones, Phytologia 55: 380. 1984. TYPE: [U.S.A.,] "Tex., Lindheimer, 1842, (?) in Herb. Mo. B. G." (i.e. the holotype presumed to be at MO but not found); Texas, Comanche Spring, New Braunfels, etc., Oct. 1849, Lindheimer 872 [lectotype or neotype (cf. Jones 1984): NY!; isolectotypes: BM!, K!, NY!, P!].

Aster lanceolatus Willd. var. interior (Wieg.) A. G. Jones, comb. nov. A. interior Wieg., Rhodora 35: 35. 1933; A. simplex Willd. var. interior (Wieg.) Cronq. in Gleason, New Britton & Brown 111. fl. 3: 466. 1952; A. lanceolatus subsp. interior (Wieg.) A. G. Jones, Phytologia 55: 383. 1984. TYPE: [U.S.A.,] Illinois, [Fulton County,] Canton, 1893. Wolf s.n. (holotype: GH!; possible isotype: GH!).

Aster lanceolatus Willd. var. simplex (Willd.) A. G. Jones, comb. nov. A. simplex Willd., Enum. hort. Berol. 2: 887. 1809; A. paniculatus Lam. var. simplex (Willd.) Burgess in Britton & Brown, 111. fl. n. U.S. 3: 377. 1898; A. lanceolatus Willd. subsp. simplex (Willd.) A. G. Jones, Phytologia 55: 383. 1984. TYPE: Herb. Willdenow 15921, sheet 1 [lectotype (cf. Jones & Hiepkco 1981): B!; 2 isolectotypes: B!].

Aster novi-belgii L. var. johannensis (Fern.) A. G. Jones, stat. nov. A. johannensis Fern., Rhodora 17: 12. 1915; A. novi-belgii subsp. johannensis (Fern.) A. G. Jones, Phytologia 55: 384. 1984. TYPE: Canada, "Quebec," near Ouatchouan Falls, Lake St. John, 19 Aug. 1904. Wight 228 (holotype: GH!).

Aster novi-belgii L. var. tardiflorus (L.) A. G. Jones, stat. nov. A. tardiflorus L., Sp. pl., Ed. 2, 2: 1231. 1763; A. novi-belgii subsp. tardiflorus (L.) A. G. Jones, Phytologia 55: 385. 1984. TYPE: cult. in Hort. Ups. Herb. Linnaeus [lectotype (cf. Jones 1984): LINN 997.48!; 2 isolectotypes: LINN 997.49! and 997.50!].

Aster occidentalis var. fremontii (Torrey & Gray) A. G. Jones, comb. nov. A. ascendens [as adscendens] Lindley in Hooker var. fremontii Torrey & Gray, Fl. N. Amer. 2: 503. 1843; A. fremontii (Torrey & Gray) A. Gray, Syn. fl. N. Amer. 1(2): 191. 1884. TYPE: [U.S.A., Wyoming,] Wind River Chain of the Rocky Mountains above 7000 feet. Fremont s.n. (holotype: GH!).

Aster puniceus L. var. elliottii (Torrey & Gray) A. G. Jones, stat. nov. A. elliottii Torrey & Gray, Fl. N. Amer. 2: 140. 1841 [based on A. puniceus sensu Elliott, Sketch 2: 355. 1824, non L. (1753)]; A. puniceus subsp. elliottii (Torrey & Gray) A. G. Jones, Phytologia 55: 384. 1984. TYPE: [U.S.A.,] South Carolina, Santee Canal, Ravenel s.n. (ex Herb. Ell.) [holotype (or lectotype designated herein): GH!].

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## REFERENCES

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